

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A polygon mirror comprising a sintered body, wherein the sintered body is formed from a mixed powder containing copper powder as a primary component and has a weight density of about 75% or more in ratio to pure copper.

2. (Currently Amended) A polygon mirror ~~according to claim 1,~~
comprising a sintered body, wherein the sintered body is formed from a mixed powder containing copper powder as a primary component and has a weight density of about 75% or more in ratio to pure copper, wherein the mixed powder contains tin powder in the range of about 7 wt. % to 20 wt. %.

3. (Original) A polygon mirror according to claim 1, wherein the mixed powder contains nickel powder in the range of about 0.1 wt. % to 5 wt. %.

4. (Original) A polygon mirror according to claim 1, wherein the weight density of the sintered body is in the range of about 80% to 93% in ratio to pure copper.

5. (Currently Amended) A polygon mirror ~~according to claim 4, wherein~~
comprising a sintered body, wherein the sintered body is formed from a mixed powder containing copper powder as a primary component and has a weight density in the range of about 80% to 93% in ratio to pure copper, and the mixed powder contains tin powder in the range of about 7 wt. % to 20 wt. %.

6. (Original) A polygon mirror according to claim 4, wherein the mixed powder contains nickel powder in the range of about 0.1 wt.% to 5 wt.%.

7. (Original) A polygon mirror according to claim 4, wherein the weight density of the sintered body is about 90% in ratio to pure copper.

8. (Original) A polygon mirror according to claim 7, wherein the mixed powder contains about 10 wt. % in a tin powder and about 1.0 wt. % in a nickel powder.

9. (Original) A polygon mirror according to claim 1, further comprising a protective film vacuum vapor deposited on reflective surfaces of the polygon mirror.

10. (Original) A polygon mirror according to claim 1, wherein reflective surfaces of the polygon mirror have a higher reflective rate for laser light with wavelength of 700 nm or more, compared to that for laser light with wavelength of less than 700 nm.

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11. (Original) A polygon mirror comprising:
a base material;
a cylindrical member formed from a sintered material connected in a unitary structure to an outer circumference of the base material; and
a plurality of mirror-finished reflective surfaces provided on polygonal outer circumference surfaces of the cylindrical member;
wherein the sintered material is formed by firing a mixed powder containing copper powder as a primary component and has a weight density of about 75% or more in ratio to pure copper.

12. (Currently Amended) A polygon mirror ~~according to claim 11,~~
comprising:
a base material;
a cylindrical member formed from a sintered material connected in a unitary structure to an outer circumference of the base material; and
a plurality of mirror-finished reflective surfaces provided on polygonal outer circumference surfaces of the cylindrical member;

wherein the sintered material is formed by firing a mixed powder containing copper powder as a primary component and has a weight density of about 75% or more in ratio to pure copper, wherein the mixed powder contains tin powder in the range of about 7 wt. % to 20 wt. %.

13. (Original) A polygon mirror according to claim 11, wherein the mixed powder contains nickel powder in the range of about 0.1 wt. % to 5 wt. %.

14. (Original) A polygon mirror according to claim 11, wherein the sintered body has a weight density in the range of about 80% to 93% in ratio to pure copper.

15. (Currently Amended) A polygon mirror ~~according to claim 14,~~
comprising:

a base material;

a cylindrical member formed from a sintered material connected in a unitary structure to an outer circumference of the base material; and

a plurality of mirror-finished reflective surfaces provided on polygonal outer circumference surfaces of the cylindrical member; wherein the sintered material is formed by firing a mixed powder containing copper powder as a primary component and has a weight density in the range of about 80% to 93% in ratio to pure copper, and wherein the mixed powder contains tin powder in the range of about 7 wt. % to 20 wt. %.

16. (Original) A polygon mirror according to claim 14, further comprising a mixed powder that contains a nickel powder in the range of about 0.1 wt. % to 5 wt. %.

17. (Original) A polygon mirror according to claim 14, wherein the weight density of the sintered body is about 90% in ratio to pure copper.

18. (Currently Amended) A polygon mirror ~~according to claim 17,~~
comprising:

a base material;

a cylindrical member formed from a sintered material connected in a
unitary structure to an outer circumference of the base material; and

a plurality of mirror-finished reflective surfaces provided on polygonal outer
circumference surfaces of the cylindrical member; wherein the sintered material is
formed by firing a mixed powder containing copper powder as a primary component
and has a weight density of about 90% in ratio to pure copper, and wherein the mixed
powder contains about 10 wt. % in tin powder and about 1.0 wt. % in nickel powder.

19. (Original) A polygon mirror according to claim 11, wherein the base
material is made of ceramic.

20. (Original) A polygon mirror according to claim 11, further comprising a
protective film vacuum vapor deposited on reflective surfaces of the polygon mirror.

21. (Original) A polygon mirror according to claim 11, wherein reflective
surfaces of the polygon mirror have a higher reflective rate for laser light with
wavelength of 700 nm or more, compared to that for laser light with wavelength of
less than 700 nm.
